

A QUERY OPTIMIZATION TECHNIQUE FOR
OBTAINING IMPROVED CARDINALITY ESTIMATES
USING STATISTICS ON AUTOMATIC SUMMARY TABLES

ABSTRACT

5 A technique for optimizing execution of a query that accesses data stored on a data store
connected to a computer. Statistics on one or more automatic summary tables are used to determine an
optimal query execution plan for the query. In particular, improved cardinality estimates are generated
for one or more query execution plans for the query using statistics of one or more automatic summary
tables that vertically overlap the query. These cardinality estimates are used to make more accurate cost
10 estimates, thus improving the likelihood of determining the optimal query execution plan.

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